14 Wall Street, Suite 1702
New York, New York 10005
tel: +1 212 785-9123
fax: +1 212 227-1692

September 12, 2011

William Sy
EPA QA Officer
U.S. Environmental Protection Agency
2890 Woodbridge Avenue
Edison, New Jersey 08837

PROJECT:	RAC 2 Contract No.: EP-W-09-002 Work Assignment No.: 023-RARA-02PE
DOC CONTROL NO.:	3220-023-1012
SUBJECT:	Field Planning Meeting Agenda Old Roosevelt Field Contaminated Groundwater Area Site Remedial Action Garden City, New York

Dear Mr. Sy:

CDM Federal Programs Corporation (CDM) is pleased to submit the Field Planning Meeting Agenda and attendance signatures for the Remedial Action Baseline Groundwater Sampling Activities at the Old Roosevelt Field Contaminated Groundwater Area Site in Garden City, New York.

If you have any questions regarding this submittal, please contact me at (212) 377-4536.

Very truly yours,

CDM FEDERAL PROGRAMS CORPORATION

Jeniffer Oxford
RAC 2 QA Coordinator

Enclosure

cc: H. Eng, EPA Region 2 (Letter Only)
J. Litwin, CDM (Letter Only)
L. Campbell
Document Control
C. Kwan, EPA Region 2
T. Mathew
M. Rahmani

213135

CDM Federal Programs Corporation
ATTENDANCE LIST

Program/Task: ORF GW Sampling

Subject of Training: GW Sampling kickoff meeting

Date/Time: 9/9/2011 11:30 AM to 12:00PM

Location: CDM-EDISON, +phone call

Instructor(s): Michael E.

Attendees:

Print Name	Signature	Affiliation (if other than CDM Federal)
Muzaffar Lahmani	M. A. Lahmani	
MIKE ERNST	Michael Ernst	
Jay Vajirkar	mmvajirkar	
Vanessa Macwan	Vanessa Macwan	
Lisa Campbell	Lisa Campbell	
JENIFFER OXFORD	J Oxford	

cc: Project Files

3/95

Field Planning Meeting
RA Field Program: Groundwater Sample Collection (Baseline)
Old Roosevelt Field Contaminated Groundwater Site
Garden City, New York
September 2011

SITE BACKGROUND

The site is an area of groundwater contamination within the Village of Garden City in central Nassau County, New York. Located on the eastern side of Clinton Road, south of the intersection with Old Country Road, it includes the area of the former Roosevelt Field airfield. Chlorinated solvents, tetrachloroethene (PCE) and trichloroethene (TCE) were used at the former Roosevelt Field airfield during and after World War II. Direct discharge of PCE and TCE to the ground surface, a common practice at that time, most likely resulted in the groundwater contamination.

The former Roosevelt Field airfield area is currently developed as a large retail shopping mall with a number of restaurants, and a movie theater. Several office buildings (including Garden City Plaza) are on the western perimeter of the mall and share parking space with the mall. A thin strip of open space along the eastern side of Clinton Road (known as Hazelhurst Park) serves as designated parkland and a buffer between the residential community on the west side of Clinton Road and the mall complex. Two municipal supply well fields are located south (downgradient) of the former airfield: the Village of Garden City public supply wells GWP-10 and GWP-11 on the eastern side of Clinton Road; the Garden City public supply wells are contaminated with PCE and TCE, and have been outfitted with air strippers. The Village of Hempstead Wellfield is located approximately one mile south of the Garden City supply wells. Two recharge basins are directly south of the mall/office area. One basin is known as Pembrook Basin and is on property owned by the mall and the second is Nassau County Recharge Basin No. 124.

The 2007 ROD selected groundwater extraction, ex situ treatment and discharge of treated water to Nassau County recharge basin #124 as the remedy. A performance based remedial design (RD) was completed in 2009. In the RD, sampling and analysis requirements were specified for the implementation of the remedial action.

In 2010, three extraction wells were installed to capture the contaminant plume without significantly impacting the pumping capacity at Garden City wells.

In 2011, three monitoring wells (MW-8D, MW-12 and SVP-14) were installed to supplement existing wells to delineate the contaminant plume, according to Field Change Request (FCR) #8.

FIELD PROGRAM OVERVIEW

1. Objectives of Field Work: Collect groundwater samples for plume delineation. (Refer to FCR #8).

2. Project Support Area: 249-251 Clinton Road, Garden City, NY 11530

3. Schedule:
    - Groundwater Sample Collection Round 5—September 12-16, 2011 & September 19-23, 2011
    - New Well Survey--TBD

4. Wells to be sampled (21 wells total):
   SVP-1 through SVP-14 [Westbay multiport wells]
   Note: Westbay wells have a minimum of 6 and a maximum of 10 sampling ports
   MW-8D
   MW-12S
   GMX-10019
   GMX-10020
   8068
   No. 10 [Supply Well]
   No. 11 [Supply Well]

5. Samples, Analyses & Laboratories:
   CLP Lab (Chemtech for VOCs; Sentinel for Metals);
   CDM Subcontract Lab (TBD) for wet chemistry)

   - VOCs (all wells/dups, field blanks, trip blanks)
   - Inorganics SVP-14 Port 1 through Port 10 [10 samples total]

Note: The EPA CLP has implemented updated inorganic procedures since the QAPP was written, therefore, Method ISM01.2 for mercury and metals groundwater analysis will be used.

- Filtered and Unfiltered Iron & Manganese
  SVP-11 (Port 2, Port 4, Port 7, Port 10)
  SVP-14 (Port 2, Port 4, Port 7, Port 10)
  MW-12S
  [18 samples total—9 filtered and 9 unfiltered]

- Total Dissolved Solids, Ammonia, Total Kjeldahl Nitrogen & Hardness
  SVP-14 (Port 2, Port 4, Port 7, Port 10)
  [4 samples each per parameter for 16 analyses total]

PROJECT ROLES AND RESPONSIBILITIES

1. EPA: Caroline Kwan, EPA RPM
2. CDM: Thomas Mathew, PM
   Ali Rahmani, Project Engineer
   Lisa Campbell, Project Geologist
   Mike Ehnot, FTL (412) 334-8261
   Jessica Bennett, Sample Manager
   Ed Kulkusky
   Jay Varjirkar
   Derek Erbak (PW Grosser)

Field Planning Meeting
RA Field Program: Groundwater Sample Collection (Baseline)
Old Roosevelt Field Contaminated Groundwater Site
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COMMUNICATION WITH STAKEHOLDERS/PROPERTY OWNERS/PUBLIC

1. State and Local Government Agencies
    a. NYSDEC
    b. NYSDOH
    c. Nassau County DOH
    d. Village of Garden City
2. Property Owners
    a. Village of Garden City (Frank Koch, Water Department)
    b. Stewart School – Do NOT access property without prior approval
3. General Public
    Dealing with public/media - (1) Caroline Kwan (EPA RPM) will be the first to contact property owners about any issues concerning the site. She will also be the main contact for the public (2) Field team refers questions from public to the FTL. (3) With public, FTL briefly states what we are doing, and directs public to Caroline Kwan for further information. With media, FTL directs reporters to Caroline Kwan.

    ***NOTE**: Under NO CIRCUMSTANCES, shall any member of the field team discuss site activities with the media.*
4. Property Access – all access has been obtained by EPA
5. The FTL will prepare daily status reports
6. The sample manager will correspond to the appropriate parties daily
7. **Note**: Use same sample designation that was used in previous groundwater events and substitute appropriate round (i.e., baseline, 1st Quarter, etc.)

FIELD ACTIVITY SUMMARY

1. Westbay Well Sampling:
    - Total of 14 wells (SVP-1 through SVP-14) encompassing 117 ports
    - Two teams of two persons
    - Westbay protocol
    - Westbay well diagrams & previous water level data
    - Portable vacuum pump to achieve vacuum to Westbay sample bottles
    - Water quality parameter measurements
    - Field filtering of metals using 0.45-micron filter and peristaltic pump

2. Low Flow Sampling:
    - Total of 4 wells (MW-8D, MW-12S, GMX-10019 , GMX-10020)
    - Two teams of two persons
    - Discuss/Review:
        - Pump placement
        - Water quality parameter measurements
        - Field filtering of metals using 0.45-micron filter
        - Decontamination procedures

3. Tap Sampling:
    - Total of 3 wells (No. 10, No. 11, 8068)
    - Let water flow from tap prior to sample collection
    - Water quality parameter measurements

Quality Assurance/Quality Control

1. Applicable project documents:
    - Final QAPP Work Assignment No. 008-RDRD-02PE/U.S. EPA Contract No. EP-W-09-0002 (February 16, 2009)
    - Field Change Request #8
    - CLP Guidance for Field Samplers-January 2011
    - CDM Inc., Corporate Health & Safety Program Manual-May 2011
    - CDM Technical Standard Operating Procedures

2. Onsite documentation:
    - Field Logbook
    - Daily Status Report
    - Low Flow Groundwater Sheets
    - Sample Tracking Sheets
    - Equipment Calibration Sheets
    - Daily Attendance Sheets

3. QA/QC Samples:
    - Trip blanks – 1 trip blank per cooler containing VOC samples
    - Field Blanks – 1 field blank per day
    - Duplicates – 1 per 20 samples
    - MS/MSD – 1 per 20 samples

HEALTH AND SAFETY

1. Level of Protection – Level D
2. Contaminants and Hazards of Concern – PCE, TCE; vehicular traffic; heavy lifting, slips/trips/falls
3. Health and Safety Instruments – PID
4. OSHA required training documentation – 40-hour OSHA, 8-hour refresher, Site Supervisor, First Aid/CPR
5. Hospital Route and Emergency Numbers
6. CDM H & S program manual, HASP, and MSDS sheets
7. Daily Health & Safety Meeting

CDM Specific Items & Logistics

1. Car Rental
2. Hotel
3. Charge Number: 50962-68991.3320.023.CSOSZ

LIST OF WELLS TO BE SAMPLED

AND REQUIRED ANALYSES

Baseline and Southern Plume Groundwater Sampling
Old Roosevelt Field Contaminated Groundwater Area Site
Garden City, New York

Well Type	Well ID	Port	Ground Surface Elevation	Sample Port Depth	Port Elevation	September 2011 Sampling			
			(feet amsl)	(feet BTOC)	(feet amsl)	VOCs	Metals	Filtered Metals	TDS, NH3, TKN, Hardness
Multiport Well	SVP-2	1	88.39	450	-361.61	X			
		2	88.39	413	-324.61	X			
		3	88.39	373	-284.61	X			
		4	88.39	333	-244.61	X			
		5	88.39	293	-204.61	X			
		6	88.39	253	-164.61	X			
		7	88.39	193	-104.61	X			
		8	88.39	153	-64.61	X			
		9	88.39	103	-14.61	X			
		10	88.39	53	35.39	X			
Multiport Well	SVP-3	1	87.17	450	-362.83	X			
		2	87.17	393	-305.83	X			
		3	87.17	373	-285.83	X			
		4	87.17	293	-205.83	X			
		5	87.17	173	-85.83	X			
		6	87.17	103	-15.83	X			
		7	87.17	53	34.17	X			
Multiport Well	SVP-4	1	88.85	420	-331.15	X			
		2	88.85	400	-311.15	X			
		3	88.85	353	-264.15	X			
		4	88.85	308	-219.15	X			
		5	88.85	288	-199.15	X			
		6	88.85	248	-159.15	X			
		7	88.85	188	-99.15	X			
		8	88.85	148	-59.15	X			
		9	88.85	103	-14.15	X			
		10	88.85	48	40.85	X			
Multiport Well	SVP-5	1	85.55	430	-344.45	X			
		2	85.55	408	-322.45	X			
		3	85.55	358	-272.45	X			
		4	85.55	313	-227.45	X			
		5	85.55	293	-207.45	X			
		6	85.55	253	-167.45	X			
		7	85.55	193	-107.45	X			
		8	85.55	153	-67.45	X			
		9	85.55	98	-12.45	X			
		10	85.55	48	37.55	X			
Multiport Well	SVP-9	1	90.27	482	-391.73	X			
		2	90.27	402	-311.73	X			
		3	90.27	352	-261.73	X			
		4	90.27	307	-216.73	X			
		5	90.27	287	-196.73	X			
		6	90.27	247	-156.73	X			
		7	90.27	187	-96.73	X			
		8	90.27	147	-56.73	X			
		9	90.27	102	-11.73	X			
		10	90.27	47	43.27	X			

Baseline and Southern Plume Groundwater Sampling
Old Roosevelt Field Contaminated Groundwater Area Site
Garden City, New York

Well Type	Well ID	Port	Ground Surface Elevation (feet amsl)	Sample Port Depth (feet BTOC)	Port Elevation (feet amsl)	September 2011 Sampling			
						VOCs	Metals	Filtered Metals	TDS, NH3, TKN, Hardness
Multiport Well	SVP-10	1	87.83	482	-394.17	X			
		2	87.83	402	-314.17	X			
		3	87.83	352	-264.17	X			
		4	87.83	307	-219.17	X			
		5	87.83	287	-199.17	X			
		6	87.83	247	-159.17	X			
		7	87.83	187	-99.17	X			
		8	87.83	147	-59.17	X			
		9	87.83	102	-14.17	X			
		10	87.83	47	40.83	X			
Multiport Well	SVP-11	1	80.32	482	-401.68	X			
		2	80.32	402	-321.68	X	X	X	
		3	80.32	352	-271.68	X			
		4	80.32	307	-226.68	X	X	X	
		5	80.32	287	-206.68	X			
		6	80.32	247	-166.68	X			
		7	80.32	187	-106.68	X	X	X	
		8	80.32	147	-66.68	X			
		9	80.32	102	-21.68	X			
		10	80.32	47	33.32	X	X	X	
Regular Monitoring Wells	GWX-10019		85.52	-137.48 to -142.48		X			
	GWX-10020		81.66	-103.34 to -108.34		X			
	8068					X			
	MW-01S			-50		X			
	MW-01I			-225		X			
	MW-02S			-50		X			
	MW-02I			-225		X			
	MW-03S			-50		X			
	MW-03I			-225		X			
	MW-8D			515-535		X			
	MW-12S			90-100'		X	X	X	
	EW-1S			-125 to -185					
	EW-1I			-195 to -255					
	EW-1D			-265 to -325					
Supply Wells	GWP-10					X			
	GWP-11					X			
Multiport Wells	SVP-01	1	86.58	450	-363.42	X			
		2	86.58	403	-316.42	X			
		3	86.58	373	-286.42	X			
		4	86.58	318	-231.42	X			
		5	86.58	293	-206.42	X			
		6	86.58	253	-166.42	X			
		7	86.58	203	-116.42	X			
		8	86.58	153	-66.42	X			
		9	86.58	103	-16.42	X			
		10	86.58	53	33.58	X			
	SVP-06	1	60.88	447	-386.12	X			
		2	60.88	370	-309.12	X			
		3	60.88	250	-189.12	X			
		4	60.88	180	-119.12	X			
		5	60.88	105	-44.12	X			
		6	60.88	50	10.88	X			

CDM

Baseline and Southern Plume Groundwater Sampling
Old Roosevelt Field Contaminated Groundwater Area Site
Garden City, New York

Well Type	Well ID	Port	Ground Surface Elevation (feet amsl)	Sample Port Depth (feet BTOC)	Port Elevation (feet amsl)	September 2011 Sampling			
						VOCs	Metals	Filtered Metals	TDS, NH3, TKN, Hardness
Multiport Wells	SVP-07	1	82.58	445	-362.42	X			
		2	82.58	428	-345.42	X			
		3	82.58	315	-232.42	X			
		4	82.58	208	-125.42	X			
		5	82.58	103	-20.42	X			
		6	82.58	48	34.58	X			
	SVP-08	1	62.26	435	-372.74	X			
		2	62.26	373	-310.74	X			
		3	62.26	238	-175.74	X			
		4	62.26	158	-95.74	X			
		5	62.26	103	-40.74	X			
		6	62.26	48	14.26	X			
	SVP-12	1	76.2	515	-438.8	X			
		2	76.2	485	-408.8	X			
		3	76.2	405	-328.8	X			
		4	76.2	355	-278.8	X			
		5	76.2	295	-218.8	X			
		6	76.2	245	-168.8	X			
	SVP-13	1	74.06	515	-440.94	X			
		2	74.06	485	-410.94	X			
		3	74.06	405	-330.94	X			
		4	74.06	355	-280.94	X			
		5	74.06	295	-220.94	X			
		6	74.06	245	-170.94	X			
	SVP-14	1				X	X		
		2				X	X	X	X
		3				X	X		
		4				X	X	X	X
		5				X	X		
		6				X	X		
		7				X	X	X	X
		8				X	X		
		9				X	X		
		10				X	X	X	X
TOTAL						130	15	9	4
Field Duplicate						7	1	1	1
Trip Blank						10			
Field Blank						10	3		
Total						157	19	10	5